

PMT hardware status

Teppei Katori
Massachusetts Institute of Technology
MicroBooNE collaboration meeting, June 16, 2011

1. PMT status

PMTs and bases, cables

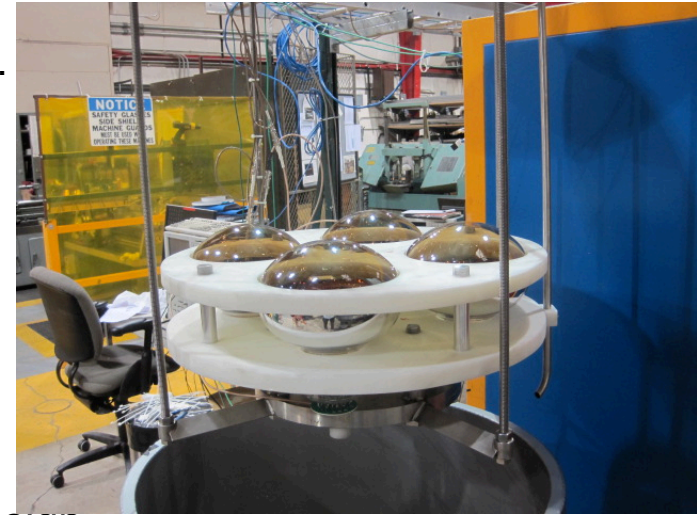
- All bases are produced, and soldered to PMTs. Test of them without LN2 is done. We will move on LN2 test soon.
- No cables (primary, intermediate, external) are made yet. All cable are purchased, but not connectors.

Splitter

- Final design is made, prototype will be made.
- Final layout of splitter board (36 channels) is not made yet.

Patch panel

- No final design yet, this is somewhat related with rack design.



1. PMT status

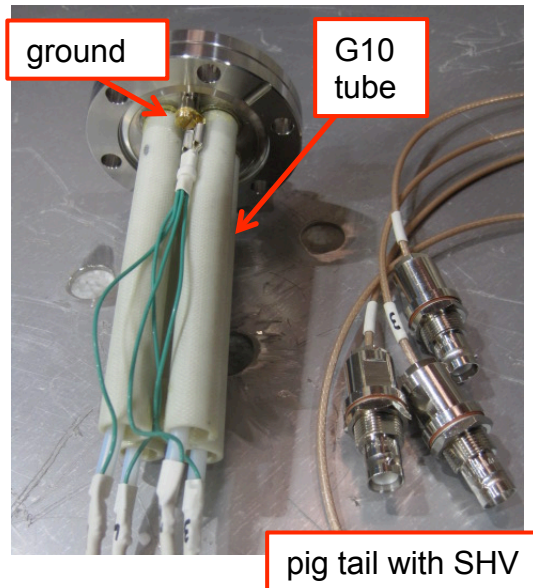
Feed through

- No final design yet. I haven't investigated alternative design from review.
- Current design: commercial 4 channel SHV feed-throughx9 are embedded on a flange.
- Alternative design: isolated SHV connectors (x36) are embedded on a flange.

TPB plate

- Final design (chemical formula, deposition method, plate design) is made.
- Final production will be not far before installation, to avoid degradation.

Prototype feed-through



Lab6 scintillation building



1. PMT status

Electronics

- Final design of shaper is made, production is ongoing.
- Final design of ADC is made, produced, test is ongoing.

HV system

- Dzero HV is chosen and it is ready to use for PMT test at PAB.
- The test stand has complete grounding scheme of the final design, until shaper.

DAQ

- ?

PMT rack

- next talk

MC

- We are good position to do many realistic studies.

Calibration system (?)

- No one is working.. (good to have LED based calibration system for PMTs).

